ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. 02AH1		PROJEC Cheshire			ng study		NO.	,		Activity C 12345- 90107 A	
SAMPLERS: (Print Name and Sign) Mike Murphy Mike Murphy Mike Murphy				OF	n a l y		AIR 20020017				
STA. NO.	DATE	TIME	COMP	GRAB		ON LOCATION	CON- TAINERS	A ⁿ //		TAG NUMBERS	
DO1	11/9	00:00	Х		GHS		2			5-340099 1 to 2	
SO1	11/9	00:00	Х		GHS		2			5-340098 1 to 2	
SO2	11/9	00:00	Х		RVHS		2			5-340100 1 to 2	-b.: 024
SO3	11/9	00:00	Х		ADDAVILLE		2			5-340101 1 to 2	-
										GHS	
				-						Serial # 3012, Psig Aug = 19.0 incres of the Serial # 3013, Psig Aug = 19.05 incres of	<
										serial # 3013, Psig Aug = 19.05 inches of	H2 e
										RUHS	
										Serial # 3009, PSTg Aug = 18:75 inter of	- HCC
										Addaville	
						\$ X X X X X X X				sevial # 3011, PSTG AUG = 18.75 inses of	te
					SIII 2-2-					V S S S S S S S S S S S S S S S S S S S	
Relinquish Muke Y Relinquish	Nurus	/		11-	Date / Time	Willem	nature)	2		Ship To:	
Reilinguisii	ea by. (c	Signature	;)		Date / Time	(Olgi	nature)				-
			_					1		ATTN:	
Relinquish	ed by: (S	Signature	·)		Date / Time	Received for Laborat (Signature)	ory by:	Date /		Airbill Number <u>UPS # 1Z. 40119901 40191260</u>	
						Whilliam A	my the	11/16/19	12:21m	Chain of Custody Seal Numbers	-
							5-140024				

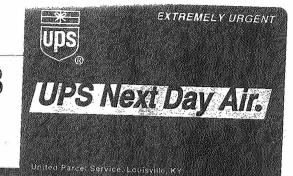
Project No.	Project Name	CHESHIRE MO	INTURING ST	upy	901014	
02AH19	AIR 2012	OUIT ARRIV	ML DATE: 1	11/16/2001	DUE DATE 12/7	1/2m
Sampler Mike Murphy						
Cooler ID	02AH191	Page 5-14002	24		20	
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH19DO1	DO1	09/11/2001 00:00:00	○ Grab Com	GHS	2	5-340099 1 to 2
Bottle	No. 1	Parameter Metal analysis by ICP				
Bottle	No. 2	Parameter PM10				
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH19SO1	SO1	09/11/2001 00:00:00	◯ Grab Com	GHS	2	5-340098 1 to 2
Bottle	No. 1	Parameter Metal analysis by ICP				
Bottle l	No. 2	Parameter PM10				
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH19SO2	SO2	09/11/2001 00:00:00	◯ Grab Com	RVHS	2	5-340100 1 to 2
Bottle	No . 1	Parameter Metal analysis by ICP		2	53	
Bottle l	No. 2	Parameter PM10				
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH19SO3	SO3	09/11/2001 00:00:00	○ Grab Com	ADDAVILLE	2	5-340101 1 to 2
Bottle l	No. 1	Parameter Metal analysis by ICP				
Bottle I	No. 2	Parameter PM10				

2 LBS 1 OF 1

FROM: SOUTHEAST DISTRICT OFFICE (740) 385-8501 OHIO EPA 2195 E. FRONT STREET LOGAN OH 43138-8637



IL 606 9-08



SHIP TO:

WILLIAM SARGENT JR.
USEPA CENTRAL REGIONAL LABORATORY
10 FLOOR
536 SOUTH CLARK STREET
CHICAGO IL 60605



TRACKING #: 1Z 401 199 01 4019 1260



BILLING: P/P



UOW 3.5.1 Konica F 14.0A 08/2001



CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 200 2 0017 Cheshire Montaring Metals

- Chain-of-Custody
- Analysis Request Form(s)*
- ☐ Sample Tags
- Transmittal Report w/signatures of the following
 - Peer reviewer
 - Team Leader review
 - QA/QC Coordinator
 - Data Management Coordinator

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by:

ata Management Coordinator



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

JAN 1 4 2002

Subject:

Review of Region 5 Data for Cheshire Monitoring Study

From:

John V. Morris, Chemist

Region 5 Central Regional Laboratory

To:

Attached are the results for: Cheshire Monitoring Study

CRL data set number: 20020017

Samples analyzed for: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel and Selenium

Results are reported for sample designations: 2002AH19S01, 2002AH19D01, 2002AH19S02 and 2002AH19S03

JAN	J.	Å,	2002	/	
		CHINES			

Data Management	Coordinator	and Date	Received
-----------------	-------------	----------	----------

Date Transmitted: JAN 1 4 2002

Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

Received by and Date

ř

Comments:

Date: 9 January 2002

Analyst: John V. Morris

Sample Batch Number: 20020016, 20020017 & 20020027

Facility Name: Cheshire Monitoring Study

Analyte: ICP Metals

Narrative for the Analysis of Metals in Air Filters in Batches 20020016, 20020017 & 20020027

On 16 November 2001, two sets of four air filters were received at CRL for analysis for metals. These samples were collected on 3 November 2001 and 9 November 2001. On 13 December 2001, two air filters were received at CRL for analysis for metals. These samples were collected on 21 November 2001. The sample descriptions are:

Batch ID	Sample ID	Serial No.	Station ID
10	(%)		
20020016	2002AH18S01	G6093483	GHS
122	2002AH18D01	G6093482	GHS
(3)	2002AH18S02	G6093484	RVHS
	2002AH18S03	G6093481	ADDAVILLE
24	(4)	10 to	a
20020017	2002AH19S01	G6092997	GHS
	2002AH19D01	G6092996	GHS
	2002AH19S02	G6092999	RVHS
4 (2)	2002AH19S03	G6092998	ADDAVILLE
•£.	, T		100
20020027	2002AH21S02	G6092994	GHS
	2002AH21S03	G6092992	GHS

The analysis was limited to the thirteen metals listed on page 15 of the QAPP. It should be noted that on the paperwork for 20020027, all four sampling locations (PM₁₀ had all four samples) were labeled GHS. The sample envelopes for 20020027 did say RVHS and ADDAVILLE, however. Some Dixon charts were missing information, but this was added by the analyst.

The samples were prepared on 18 December 2001. Method Metals_006, a hot block adaptation of the beaker digestion given in 40 CFR Part 50, Appendix G, was used for the digestion. The digestion log number was 1341. There are no holding times for the air program.

Only one filter blank was prepared because these were to be the last samples for metals in this study. Although statistical data had been collected for the serial number series used for these samples, the old statistics were used for the blank subtraction, because there was not a great difference in the new statistics. As before, blank subtraction was applied to the elements barium,

Date: 9 January 2002

Analyst: John V. Morris_

Sample Batch Number: 20020016, 20020017 & 20020027

Facility Name: Cheshire Monitoring Study

Analyte: ICP Metals

chromium, iron, magnesium and nickel. This was done as described in section 11.2 of the CRL SOP Metals_006 to remove the contribution to the result from the glass fiber filter itself. The reporting limits used for those five elements were derived from ten times the standard deviation of the data used to arrive at the average blank.

lvm

The analysis was performed on 3 January 2002 using method Metals_003, using the Perkin-Elmer 3300DV ICP. The analyst mistakenly transposed three of the standards in setting up the tray. That is why the analysis was stopped and restarted during the analysis of the first set of instrument checks. Of the standards mixed up, the standard Cal Ag/K was not re-poured, because neither silver nor potassium was an analyte in this study. For that reason, some audits for those analytes are out of control.

For the thirteen metals reported for this study, all instrument check standards (LCM1, LCM2, Hi AQC) were in control. The blanks showed a few out-of-control audits, but were not of any consequence to the data. Specifically, magnesium was more negative than the MDL for all of the instrument blanks (LCB) straddling the field samples. None of this bias, if compensated for, would result in more than a fraction of a percent change in the magnesium data, so no flag used on this account. The digestion blank (LRB) was high for cobalt, copper, iron, magnesium and manganese, and low for arsenic, again with no effect.

The report level check (RLC) was within 80-120% recovery for most of the 13 elements. Arsenic and magnesium were outside these limits by almost exactly the amount the digestion blank was off. The other instrument checks for these elements were all in control, and the data for magnesium was far above the reporting limits, at least before filter blank subtraction. Arsenic was all below reporting limits, and as stated above, the low bias in that blank, if corrected, would still not result in a reportable value. The duplicate filter digestion was within $\pm 20\%$ for the relative percent difference (RPD) or within \pm the MDL for the difference, with the exception of cadmium and nickel, with an absolute difference in the duplicate just greater than the MDL when converted to $\mu g/\text{filter}$ in the duplicate of 2002AH18D01, and for nickel in the duplicate of 2002AH21 S03. Nickel was not at reportable levels in any case, and the only cadmium was more than 10 times the difference observed in the offending duplicate, so no flag was used.

One digest, that for sample 2002AH18S01, was greater than the calibration standard for copper. This sample was diluted two-fold and reanalyzed before the final set of instrument QCs.

No significant spectral interference errors are indicated in the SIC measurements for these samples.

Date: 9 January 2002

Analyst: John V. Morris

Sample Batch Number: 20020016, 20020017 & 20020027

Facility Name: Cheshire Monitoring Study

Analyte: ICP Metals

Again, as with previous batches, the co-located sample pair 2002AH18S01 and 2002AH18D01, as well as the co-located sample pair 2002AH19S01 and 2002AH19D01, results are quite different.

All analytical results files, sample information files and reformat files for ICP analysis can be found on the R5CRL data server using the following path: h:\r5crl\vol3\metals\jvmorris\20020016_17_27\3300dv\

The narrative, QC summary spreadsheets, sample result calculation spreadsheets and the final sample report for ICP analysis can be found on the R5CRL data server using the following path: h:\r5crl\vol3\metals\jvmorris\20020016 17 27\reports\

Sample Number:

2002AH19S01

Station ID: **GHS**

Sample Batch Number:

20020017

Collection Date:

9 Nov 01

Study: **Cheshire Monitoring Study** Filter SN: G6092997

Analysis Date:

3 Jan 02

<u>Element</u>	Concentration	<u>Units</u>
Element Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel	Concentration 9 U 95 U 0.6 U 0.6 U 3.14 U 1.2 U 1140 428 14.8 343 U 16.7 5.73 U	Units µg/filter
Selenium	18 U	µg/filter

Jvn 9Jan 02

Sample Number:

2002AH19D01 20020017 Station ID:

GHS

Sample Batch Number: Collection Date:

9 Nov 01

Study: Filter SN: Cheshire Monitoring Study G6092996

Analysis Date: 3 Jan 02

Element	Concentration	<u>Units</u>
Arsenic Barium Beryllium	9 U 95 U 0.6 U	µg/filter µg/filter µg/filter
Cadmium	0.6 U	μg/filter
Chromium	3.14 U	μg/filter
Cobalt	1.2 U	μg/filter
Copper	151	μg/filter
Iron	858	μg/filter
Lead	6.68	µg/filter
Magnesium	343 U	µg/filter
Manganese	26.7	μg/filter
Nickel	5.73 U	μg/filter
Selenium	18 U	μg/filter

Jun 9 Jan 02

Sample Number:

2002AH19S02

Station ID: RVHS

Sample Batch Number:

20020017

Study: Cheshire Monitoring Study

Collection Date:

9 Nov 01

Filter SN: G6092999

Analysis Date: 3 Jan 02

Element	Concentration	<u>Units</u>
Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Selenium	9 U 95 U 0.6 U 0.6 U 3.14 U 1.2 U 107 1050 9.88 368 38.9 5.73 U 18 U	µg/filter

Jun 9 Jan 02

Sample Number: Sample Batch Number:

Collection Date:

Analysis Date:

2002AH19S03

20020017 9 Nov 01 3 Jan 02

Station ID:

ADDAVILLE Cheshire Monitoring Study

Study: Filter SN:

G6092998

Element	Concentratio	<u>n</u>	<u>Units</u>
Arsenic	9	U	μg/filter
Barium	95		μg/filter
Beryllium	0.6	U	μg/filter
Cadmium	0.6	U	μg/filter
Chromium	3.14	U	μg/filter
Cobalt	1.2	U	µg/filter
Copper	279		µg/filter
Iron	364		µg/filter
Lead	6	U	µg/filter
Magnesium	343	U	μg/filter
Manganese	18.9		μg/filter
Nickel	5.73	U	μg/filter
Selenium	18	U	μg/filter

Jun 9 Jan 02

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (<u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method Detection Limit (MDL)</u> but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te <u>N</u> tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or Q uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>
U	This flag in used when the analyte was analyzed for but <u>Undetected</u> in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2002 0017 Cheshire Monitoring
Suspended Particles

Chain-of-Custody

Analysis Request Form(s)*

Sample Tags

Transmittal Report w/signatures of the following:

Data Management Coordinator

Analyst (s)

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: Sylvia Triffin 11-30-0

Pata Management Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

NOV 3 0 2001

Subject:

Date:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Francis A. Awanya, Chemist

Region 5 Central Regional Laboratory

To:

Attached are the results for: <u>CHESHIRE MONITORING STUDY</u>

CRL data set number: 20020017

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH19S01, 2002AH19D01, 2002AH19S02,

and 2002AH19S03.

NOV	3	0	2001
1		/	

Data Management Coordinator and Date Received
NOV 3 0 2001 Date Transmitted: / / /
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
Received by and Date
Comments:

Project No. Project Name	CHESHIRE MO	INTURING ST	rupy	901014	
02AH19 AIR 2U12	-OUIT ARRIV	ML DATE:	11/16/2001 Du	15 DATE 12/	7/201
Sampler Mike Murphy	9	41			
Cooler ID 02AH191	Page 5-1400	24			The state of the s
Sample Id: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH19DO1 DO1	09/11/2001 00:00:00	○ Grab Com	GHS	2	5-340099 1 to 2
Bottle No. 1	Parameter Metal analysis by ICP			¥	
Bottle No. 2	Parameter PM10			13	
Sample ld: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH19SO1 SO1	09/11/2001 00:00:00	◯ Grab Com	GHS	2	5-340098 1 to 2
Bottle No. 1	Parameter Metal analysis by ICP		N g		¥/
Bottle No. 2	Parameter PM10				
Sample Id: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH19SO2 SO2	09/11/2001 00:00:00	Grab Com	RVHS	2	5-340100 1 to 2
Bottle No. 1	Parameter Metal analysis by ICP	ë	ts.		
Bottle No. 2	Parameter PM10		* g	(2)	
Sample Id: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH19SO3 SO3	09/11/2001 00:00:00	◯ Grab Com	ADDAVILLE	2	5-340101 1 to 2
Bottle No. 1	Parameter Metal analysis by ICP				
Bottle No. 2	Parameter PM10		8	14	

ENVIRONMENTAL PROTECTION AGENCY REGION V CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 11/09/2001 LAB ARRIVAL DATE: 11/16/2001 DUE DATE: 12/07/2001

DU NUMBER: 90101A DATA SET NUMBER: 20020017 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE#	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)		
1	2002AH19S01	GUIDING HANDS SCHOOL	0.0200		
2	2002AH19D01	GUIDING HANDS SCHOOL	0.0210		
3	2002AH19S02	RVHS	0.0209		
4	2002AH19S03	ADDAVILLE	0.0132	ī.	
DATE OI	FANALYSIS		11/26-29/2001		
ANA	ALYST	-20070	FAA		

Reviewed by:	6.3	Date: 11/30/01
	AND THE RESIDENCE OF THE PARTY	

ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. 02AH1	5/1	PROJEC Cheshire			ing study					Activity Code: 12345
SAMPLER							NO.	e	//	901014
Mike Murp	.h.	ike M		_	Mike Meery	re/	OF	y te	//	// AIR 20020017
			C	GRAB			CON- TAINERS	n A		
STA. NO.	DATE	TIME	O M P	AB	STATI	ON LOCATION		////		TAG NUMBERS
DO1	11/9	00:00	X		GHS	- 14g	2			5-340099 1 to 2
SO1	11/9	00:00	Х		GHS		2			5-340098 1 to 2
SO2	11/9	00:00	X	1	RVHS		2			5-340100 1 to 2
SO3	11/9	00:00	X		ADDAVILLE		2			5-340101 1 to 2
					N-1	The state of the s			=	GHS
							-			serial # 30R , Psty Aug = 19.0 incres of the
					-mar	2 7 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Serial # 3013, Para Aug = 19.05 inches of the
							- X-2	*		
										RUHS
					- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		-			Serial # 3009 PSTg Aug = 18,75 Norm of Hec
			-	-	A. C.		-			
				-		WH	-			Addaville
		,		-		Anna Anna			-	Sevial # 3011, PSTS AUG = 18.75 inches of the
				_		51				
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Relinquishe	ed by: (S	Signature))		Date / Time	Received by: (Sig	nature)			Ship To:
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Relinquishe	ed by: (S	ignature)			Date / Time	Received for Laborat	tory by:	Date / Tim	ne	Airbill Number
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				1		William S	y gh	11/16/11/12	2/04	Chain of Custody Seal Numbers
							5-140024	14 A		2

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytic	cal and Inorganic Group	Page_of _

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

Batch Number: 20020017 Facility: CHESHIRE MONITORING STUDY

Parameter: SUSPENDED PARTICLES CRL SOP: A1G-047

Package Overview:	YES	NO
Raw Data Package Complete?		3
Results Reported Correctly?	1	
Special Requests Done?	N/A	nattoye waxaa mura
Calculations Checked?		
Calibration Not Exceeded?	N/A	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	NA	
Quality Control:		
Holding Times Met?	N/A	
Preservation Checked?	N/A	
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?	V	4
Calibration Verification Checked?	N/A	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	N/A	
Matrix QC Checked?	N/A	
Digestion Blanks Checked?	NIA	
Spiked Blank Checked?	NIA	
LCS (if applicable) Checked?	N/A	
QCS (if applicable) Checked?	N/A	
Final Check		
Technical Review Done?		
Narrative Complete?	le l	

Analyst:	FMA	Peer Reviewer: <u>£. &</u>	*
Date:	11/30/01	Date: 11/30	[0]
		Comments Attached? (Y/N	D N

Data Set Number:	20020017	_ Parameter:	Suspended Particles
Facility Name:	CHESHIRE MONITOR	RING STUDY	
Study Name:	_CHESHIRE MONITOR	ZING STUDY	
Date of Narrative:	11/30/2001	Analyst:	<u>FAA</u>
		Signature:	FAD

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on November 16, 2001. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280130	2002AH19S01	5-340098-2
Q6280131	2002AH19D01	5-340099-2
Q6280128	2002AH19S02	5-340100-2
Q6280129	2002AH19S03	5-340101-2

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 11/26/2001 and was completed on 11/29/2001. All exposed filters were in good conditions.

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers: 20020016 & 20020017

Date of Analysis11/26-29/2001

Analyst:

FAA

BALANCE VERIFICATION:

Sandard Weig	ghts Balanced weights	ght Differences
Actual (g)	Balanced (g	(g)
		Limit +/-0.0005 g
Data set Numbe	r 20010071,72,73	
1.0000	1.0000	0.0000
2.0000	1.9999	0.0001
5.0000	5.0000	0.0000

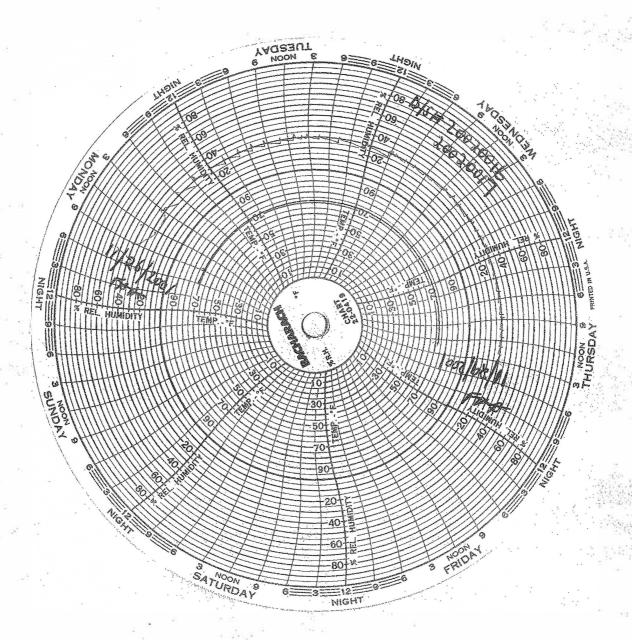
QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Sampling	ANALYST	Exposed	
Number	I.D Number	Date		weight (g)	
			O METOWN HOLDER		
Data set Number 20	020016, 20020017			WANT TO WE STONE THE WOOD	
Q6280035	2002AH18S03	11/03/01	Analyst 1	4.3834	
Q6280035	2002AH18S03	11/03/01	Analyst 2	4.3835	
Differences (Limit +/-	5 mg)			-0.0001	
Q6280129	2002AH19S03	11/09/01	Analyst 1	4.3893	
Q6280129 2002AH19S03		11/09/01	Analyst 2	4.3896	
Differences (Limit +/-	5 mg)			-0.0003	

CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
Trapation.	2 X3 2 5 1	THE PLANE OF								-3-x	
Data set N	umber 20020016							7			
Q6280035	2002AH18S01	11/03/01	Guiding Hands Schoo	13012	18.50		0.00	4.3789	4.3834	0.0045	ERR
Q6280036	2002AH18D01	11/03/01	Guiding Hands Schoo	13013	18.50		0.00	4.3718	4.3793	0.0075	ERR
G6280037	2002AH18S02	11/03/01	RVHS	3009	19.10		0.00	4.3934	4.4100	0.0166	ERR
Q6280038	2002AH18S03	11/03/01	ADDAVILLE	3011	19.80		0.00	4.3721	4.3943	0.0222	ERR
Data set N	umber 20020017										
Q6280130	2002AH19S01	11/09/01	Guiding Hands Schoo	13012	19.00		0.00	4.3693	4.3893	0.0200	ERR
Q6280131	2002AH19D01	11/09/01	Guiding Hands Schoo	13013	19.05		0.00	4.3778	4.3988	0.0210	ERR
G6280128	2002AH19S02	11/09/01	RVHS	3009	18.75		0.00	4.3410	4.3619	0.0209	ERR
Q6280129	2002AH19S03	11/09/01	ADDAVILLE	3011	18.75		0.00	4.3565	4.3697	0.0132	ERR

J. L.		The second secon			a farmer spine a management some and the farmer	More constitute entire
Tiltur	TARE	Deep	Exposed	Exposed	Comments	FIL
ID.	Wt.	wt	, Wt	wt Dup	A politicis de Carles de Santo de Carles de Ca	· i
	(9)	(9)	(g)	(9)		
					hate is these	201-201-00-00
0 6280149	4,3743			The second of the second of the	A MAC AT IN MODERNIA	Q628
9 6280 148	4,3825	Committee of the second contract of the secon	**************************************			962
9 6280147	4,3725	The second state of the se			Tanka in the same of the same	Q6
03 6280146	4:3555	The same and the same and the				Q63
0 6286145	4,3781	والمراجع المالية				Q65
9 6280 144	4.38 969	all makes as social and the second of			Air Ton Committee	962
86280143		4.371150	The second resonant of the second		And all water to the control of the state of	Q6:
86280142	4,3456	the most activated because the control of the contr	AND		Configurations for expense as on any consequence of some of the consequence.	96
96280141	4.3935	The second second second second second	NAME OF THE OWNER OWNER OF THE OWNER OWNE	and the second s	The state of the s	Q6:
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8 6280139	4,3513	January Marie Company	AND 11 A 21 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1		Manager and the same state of	Q6
96240138	4,3882	1,1,1,1				96
96280137	4.3705				A particular and the second	Q6:
96280136	4.3374	4.3375				Q6:
86280135	4.3633					Q6;
96280134	4,3930					<u>Q6</u>
96280133	4.3637	,				06
Q 6280132	4.3378		00	. F.C		06
9 6280131	4.3778	A	4-3998 1/2	do l	4	06
9 628013D	4.36963		4.3893	4-389685		0
°9 6280129	4,3565	Landy 191	4.3697			67.
9 6280128	4.3416	B	4.3619	, and the same of	1	14.(0)
96286127	4.3644	With the same of t			- All second	
96290126	4.3633	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		a serie for a series of the se		(S(5)



General information

Standard weights, actual (g)

Balanced weights, balanced (g)

	district the second sec		
1	METTIER TULEDA	0.1000	0.1000
	AG285	0.5000	0.5000
	8/1120181838	2-0000	2.0000
v.v.2000	11/16/01 Fort	5.0000	5.0000
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,	SARTORIOUS	1.0000 (500+200+200	1100 mg) 1,0000
	SIN37010119	2.0000	2.0000
- 47-5-m	11/16/01 FAA	5.000	4.9999
-445-A/10-	A contract control of the control of	and an opposite a consequent of the contract o	e was the content of
water to			
) aggreements	MEITLER TOLEDO	5.0000	5.0000
	AG 285	10.0000	10.0000
	51N 1120181838	20.0000	20.000\$211/2/01
s-erenti.	11/27/01 FAA	50.0000	50.0002
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V60581		50:00	ED OO
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,., >4×1°	A	nggarasa addis. Pa ogrupasanamonm till menamu killindiniminan adala 18 kunik yapin keladakan gapi sa sala sasa	militaria (1880) kan
time A	SARTORIOUS	1.0000	1.0000
	SN37010119	2.0000	1.9999
- Darley Marie	1/29/01 Fore	5.0000	5.0000

Preservative None S M MD B D
Sample ID 02AH18S01 X
Sampler Mik Mirry
Date 11-03-01

20020016

Parameters PM10

5-340097-2

US EPA Region 5 Field Sample

		^{eUI} /6n		01-Md		AUTOA -	<u> </u>
6	TW BLYMAS	$_{\rm g}$	TOM	LAATOT	nim\ ^e m		MO
5	TW JAITINI	бншш		SSEERS	SHUNIM	(2)-11-11	HMIT GBS9A_
j j	TW JANIH	X	9.	TEMP	-5181	EB BESP.	G. RECORD
			<u> </u>	3827 D	1 SIDE # SHE	Taus T	d.
10-80-11	TAG	प्रा ट ४० .	Lveja	0		NIIS VIIS	7 01-

Date	Sampler	Sample ID
11-0301	Mik Mi	D 02AH18DO1
	Allen	×

Preservative None

SMWDBD

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			# S E		
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	4 3010		A Company of the Comp	2 2 2	
or C	SITE CHS#				
	i s				
	٩	IG PECOR			

Preservative None M MD B D Sample ID 02AH18SO2

20020016

Parameters PM10

OPERATOR OFPA

DATE V-03-52

US EPA Region 5 Field Sample

SHA

		,w/ _{6n}		OF-M9		AUTOA	are
6	SAMPLE WT	_E M	Erom ⁻	JATOT	uim/ _e m		FOM
6	TW JAITINI	бниш		PRESS	SETUNIM	<i>ागम</i> ि	ELAPSED TIME
5	TW JANIH	K	3 0	TEMP	- <u>14</u>	EB BESb'	AVG. RECORDE
			15000	(29 d) 1	SOOE # SHO	Talis	dS.

COMMENTS:

Preservative None S M MD B D
Sample ID 02AH18503 X
Sampler Mike Munny
Date 11-03-0;

US EPA Region 5 Field Sample

Parameters PM10

OPERATOR OF 1914 DATE 1/-03-03

ENAL WT

SHIA

01-Mc

dS.

SITE ALLANIC # 30/1

AAC: BECORDER RESP.

9 TW JAITINI

бниш

SEBUL SEL

MMD.

STAPSED TIME

m: SAMPLE WI

WOJH JATOT

uim/^em

MOTE

CLS

:^W/6n

OF-Me

WCINVE

SOMMENTS: